

Notice of Allowability

Application No.

10/811,684

Examiner

Anabel M. Ton

Applicant(s)

MACHI ET AL.

Art Unit

2875

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 06/21/07.
2. ☒ The allowed claim(s) is/are 1-5, 10-13 and 15-29.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

Allowable Subject Matter

1. Claims 1-5,10-13,115-29 are allowed.
2. The following is an examiner's statement of reasons for allowance: The prior art cited does not anticipate individually nor teach in combination the following limitations:
 - Worsdell, although disclosing a forward position lighting device configured to be installed at a wing of an aircraft, the aircraft wing corresponding to a particular mounting platform, the device comprising: a plurality of modular components, including a mounting module having one or more solid-state light sources, a cut-off shield module that limits the light emitted by the solid-state light sources according to predetermined angular cut-off parameters, and a base assembly module including electronic circuitry that electrically connects the solid-state light sources to a power source within the aircraft; and a fastening mechanism configured to fasten the modular components together, the fastening mechanism being configured for repeated fastening and unfastening to facilitate the modularity of the modular components, wherein the modular components are configured so that the device is mountable within the wingtip of multiple types of aircraft via the fastening mechanism, Worsdell does not anticipate nor could be found to teach in combination the feature of the electronic circuitry of the base assembly module is passive, the device being configured so that the base assembly module is interchangeable

with. A type of assembly module whose electronic circuitry is active. Worsdell was also not found to teach the light device as described in claims 16 and 17

- Fredericks, although disclosing a light emitting unit that has LEDs emitting light from the side of the unit, Fredericks does not anticipate nor teach in combination with another reference, a mounting module including: two side-emitting LEDs; one or more reflectors operable to reflect at least a portion of light emitted by the side-emitting LEDs, the side-emitting LEDs and reflectors being configured so that the light emitted by the side-emitting LEDs and the light reflected by the reflectors combine according to a first distribution of light; and a lambertian LED operable to emit light according to a second distribution of light, wherein the mounting module is configured so that the first and second distributions of light combine to form a pattern of light with a predetermined angular cutoff in the horizontal plane of the aircraft, in particular the feature of each side-emitting LED emits light around its optical axis such that radiant intensity peaks in the range of 60-100 degrees off the optical axis. Fredericks was also not found to anticipate nor teach in combination the limitations as recited in claim 17, in particular the arrangement of the first, second and third LED.
- Lohdie, although disclosing an aircraft light source, with a light emitting capacity in the range of 0-90 degrees from the vertical, Lohdie was not found to anticipate nor teach in combination the feature of each side-emitting LED emits light around its optical axis such that radiant intensity peaks in the range of 60-100 degrees off the optical axis

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anabel M. Ton whose telephone number is (571) 272-2382. The examiner can normally be reached on 08:00-16:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on (571) 272-2378. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.


Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Anabel M Ton
Examiner

Art Unit: 2875

Art Unit 2875

AMT



Sandra O'Shea
Supervisory Patent Examiner
Technology Center 2800